Features:
- simple motor control with only a few elements
- motor contactor and DC-brake in a single device
- suitable for all asynchronous motors
- controlled by microcontroller
- easy mounting, also for retrofitting into existing plants
- motor contactor with contact gap ≥ 3mm, utilization category AC-3
- operator's controls physically separated from load (24V extra-low voltage)
- degree of protection IP 20
- meets trade assoc. requirements for category 2 acc. to EN 954-1
- according to the test principles of woodworking machines GS-HO-01
- intermateable with BRMS

Function:
- direct online start via motor contactor
- DC braking
- control via buttons or via switch
- braking current infinitely adjustable
- standstill threshold adjustable
- braking current cutoff after motor standstill
- monitoring of braking frequency (overload protection)
- monitoring of exceeded braking time (10s)
- start interlock in case of safety relevant errors

Typical Applications:
- sawing machines
- centrifuges
- vibrators

Type designation VBMS 400-2,2/20 230-1,5/20
Rated operational voltage 50/60Hz according to DIN EN 50160 (IEC 38)
3x 380/415V ± 10%
3x 200/240V ± 10%
AC-3 Rated operational power 2,2kW 1,5kW
Conventional enclosed thermal current Ith = Ie (motor contactor) 16A
Braking current 2…20A
max braking time 10s
max. braking frequency at braking current 10A at 5s braking time: 1 in 25s, at 10s braking time: 1 in 50s at 5s braking time: 1 in 60s, at 10s braking time: 1 in 120s
Delay time during switch-off and braking 500ms
Braking voltage 0…220V DC 0…110V DC
max. cross-sectional area 2,5mm per terminal 0,6
Weight / kg 0,6
Ambient / Storage temperature 0°C … 45°C / -25°C … 75°C
Order number 2C000.40020 2C000.23020

Please observe supplementary sheet with dimensioning rules.
Dimensions:

All dimensions in mm!

Connection Diagrams:

Connection with push-button

Connection for single-phase motor

Connection "START/STOP" button with 3 conductors

Connection with motor protection relay

EMC
The limit values for emitted interference according to the applicable device standards do not rule out the possibility that the limit values according to the basic standard EN 61000-6-3:2007 are exceeded. If is necessary to comply with the limit values of the basic standard EN 61000-6-3:2007, PETER electronic will offer appropriate solutions for the VBMS device series. In this case, please contact us.

We point out that the creator of the plant / machine shall be responsible to ensure compliance with the EMC law.